

Abstract of the Disclosure

A method of displaying real-time, three-dimensional weather information is disclosed. A first representation of a weather event along a first plane is generated from data obtained from a first radar scan. A second representation of the weather event along a second plane is generated from data obtained from a second radar scan. The first and second planes are non-coplanar. The first and second representations are combined to form a three-dimensional model of the weather event. A three-dimensional shape of the three-dimensional model is constructed. The three-dimensional shape is displayed on an avionics display.